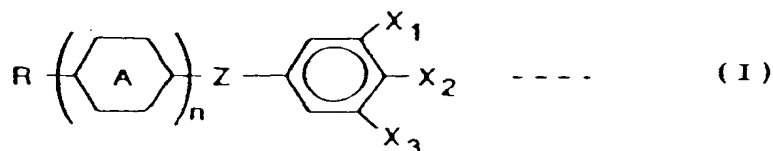


said electrode structure including a pixel electrode and a common electrode;

wherein a relationship between a distance  $l$  between said pixel electrode and said common electrode and a distance  $d$  between said pair of substrates is  $l/d \geq 2.0$ ; and

wherein said liquid crystal composite material includes a liquid crystal chemical compound represented by a general chemical formula (I)



C<sub>1</sub>  
cont.

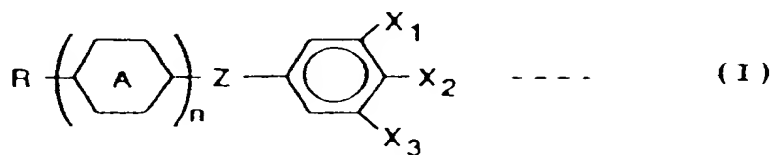
wherein in the formula (I),  $X_1$ ,  $X_2$  and  $X_3$  are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three  $X_1$ ,  $X_2$  and  $X_3$  being a hydrogen group; R is selected from a group consisting of alkyl group and alkoxyl group having the carbon number 1 to 10 which can be substituted; Ring A is selected from a group consisting of cyclohexane ring, benzene ring, dioxane ring, pyrimidine ring, and-bicyclohexane ring, Z is selected from a group consisting of single bonding, ester bonding, ether bonding, methylene, and ethylene; and  $n$  is 1 or 2.

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3. (twice amended) A liquid crystal composite material

adapted to be used in a liquid crystal layer of a liquid crystal display device having a pair of substrates with the liquid crystal layer interposed therebetween, and an electrode structure for generating an electric field having a component predominantly in parallel with one of said pair of substrates;

wherein said liquid crystal composite material includes a liquid crystal chemical compound represented by a general chemical formula (I)



wherein in the formula (I),  $X_1$ ,  $X_2$  and  $X_3$  are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three  $X_1$ ,  $X_2$  and  $X_3$  being a hydrogen group; R is selected from a group consisting of alkyl group and alkoxyl group having the carbon number 1 to 10 which can be substituted; Ring A is selected from a group consisting of cyclohexane ring, benzene ring, dioxane ring, pyrimidine ring, and-bicyclohexane ring, Z is selected from a group consisting of single bonding, ester bonding, ether bonding, methylene, and ethylene; and n is 1 or 2; and

wherein a relation between an elasticity constant K2 and a dielectric anisotropy  $\Delta\epsilon$  of said liquid crystal composite

C<sub>2</sub>  
Cont.

material satisfies the relation  $K2/\Delta\epsilon < 9 \times 10^{-8}$ .

*SUB D2* 4. (amended) A liquid crystal composite material adapted to be used in a liquid crystal layer of a liquid crystal display device having a pair of substrates with the liquid crystal layer interposed therebetween, and an electrode structure for generating an electric field having a component predominantly in parallel with one of said pair of said substrates;

wherein said liquid composite material has a resistivity which is no greater than  $1 \times 10^{13} \Omega \cdot \text{cm}$  and greater than  $1 \times 10^{10} \Omega \cdot \text{cm}$ .

[Please rewrite claim 5 in independent form as follows:]

*C2* *SUB K7* 5. (amended) A liquid crystal composite material [according to claim 4,] adapted to be used in a liquid crystal layer of a liquid crystal display device having a pair of substrates with the liquid crystal layer interposed therebetween, and an electrode structure for generating an electric field having a component predominantly in parallel with one of said pair of said substrates;

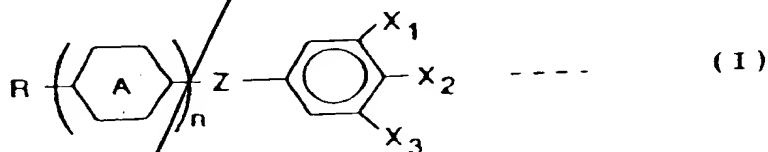
wherein said liquid composite material has a resistivity which is no greater than  $1 \times 10^{13} \Omega \cdot \text{cm}$  and not less than  $1 \times 10^9 \Omega \cdot \text{cm}$ ; and

wherein a relation between an elasticity constant K2 and

a dielectric anisotropy  $\Delta\epsilon$  of said liquid composite material satisfies the relation  $K_2/\Delta\epsilon < 9 \times 10^{-8}$  [dyn].

[Please amend claims 6, 8, 13 and 14 as follows:]

6. (twice amended) A liquid crystal composite material according to claim 4, wherein said liquid crystal composite material includes a liquid crystal chemical compound represented by a general chemical formula (I)



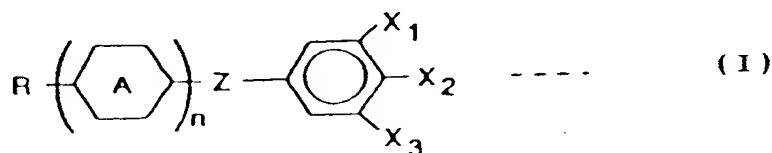
C2  
Cont.

wherein in the formula (I),  $X_1$ ,  $X_2$  and  $X_3$  are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three  $X_1$ ,  $X_2$  and  $X_3$  being a hydrogen group;  $R$  is selected from a group consisting of alkyl group and alkoxyl group having the carbon number 1 to 10 which can be substituted; Ring  $A$  is selected from a group consisting of cyclohexane ring, benzene ring, dioxane ring, pyrimidine ring, and-bicyclohexane ring,  $Z$  is selected from a group consisting of single bonding, ester bonding, ether bonding, methylene, and ethylene; and  $n$  is 1 or 2.

8. (amended) In a liquid crystal display device having

a liquid crystal layer interposed between a pair of substrates, and an electrode structure for generating an electric field having a component predominantly in parallel with one of said pair of substrates provided on one of said pair of substrates;

wherein said liquid crystal composite material includes a liquid crystal chemical compound represented by a general chemical formula (I)



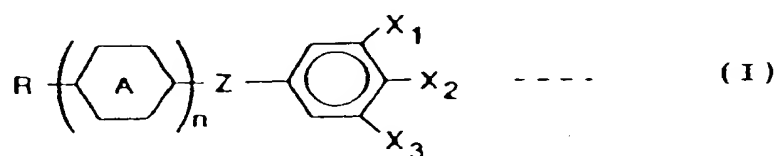
C3  
cont.

wherein in the formula (I),  $X_1$ ,  $X_2$  and  $X_3$  are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three  $X_1$ ,  $X_2$  and  $X_3$  being a hydrogen group; R is selected from a group consisting of alkyl group and alkoxyl group having the carbon number 1 to 10 which can be substituted; Ring A is selected from a group consisting of cyclohexane ring, benzene ring, dioxane ring, pyrimidine ring, and-bicyclohexane ring, Z is selected from a group consisting of single bonding, ester bonding, ether bonding, methylene, and ethylene; and n is 1 or 2.

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13. (twice amended) In a liquid crystal display device

according to claim 12, wherein said liquid crystal composite material includes a liquid crystal chemical compound represented by a general chemical formula (I)



wherein in the formula (I),  $X_1$ ,  $X_2$  and  $X_3$  are selected from a group consisting of fluoro group, cyano group, trifluoromethyl group, trifluoromethoxyl group, nitro group and hydrogen atom, not all three  $X_1$ ,  $X_2$  and  $X_3$  being a hydrogen group; R is selected from a group consisting of alkyl group and alkoxyl group having the carbon number 1 to 10 which can be substituted; Ring A is selected from a group consisting of cyclohexane ring, benzene ring, dioxane ring, pyrimidine ring, and-bicyclohexane ring, Z is selected from a group consisting of single bonding, ester bonding, ether bonding, methylene, and ethylene; and n is 1 or 2.

14. (twice amended) In a liquid crystal display device according to claim 12, wherein said electrode structure include a pixel electrode spaced from a common electrode, and said pair of substrates are spaced from one another, wherein a relationship between a distance l between [a] said pixel